

	Montgomery County Fire & Rescue	Drill: 20-06
	Monthly Basic Training MBT	Month: June
	Thermal Imaging Camera	Time Required: 120 min

EQUIPMENT:

- Web enabled device suitable for viewing videos
- Thermal Imaging Camera (TIC), preferably the Bullard T4, however any model will suffice

TARGET AUDIENCE: All firefighters/rescuers listed on the IECS list in Montgomery County.

SKILLS ASSESSED: A firefighter's ability to appropriately utilize the TIC for various operations in a variety of conditions, buildings, and scenarios.

REFERENCES:

MBT TIC Video Link: <https://youtu.be/arZRpnO6BWY>
 Bullard ETT Video: <https://youtu.be/5jCeXC0ifg>
 Bullard T4X Owner's Manual [Owner's Manual](#)

OBJECTIVES: By the end of this training, personnel will be able to identify the components of common TICs in the MCFRS system and be able to better interpret the information that the camera is providing the user.

BACKGROUND/SIGNIFICANCE: Thermal Imaging Cameras can be a valuable tool when utilized properly. It can assist with locating fire, help to determine current fire conditions, and aide in the rapid search for victims. Improper use can lead to firefighter disorientation, missing or misinterpreted information that can aide in the decision making process, and unnecessary damage during overhaul.

LESSON PLAN:

- View MBT Video
- View supplemental ETT video
- Use a TIC in various rooms in the station and attempt to replicate some of the items identified in the video for discussion (masking, reflectivity, etc.).

PRACTICAL SKILLS:

- Have all members practice using a TIC in a variety of scenarios: blacked out room with passive emitters; warm environments with active emitters; environments with lots of reflective objects
- If possible, obstruct user's peripheral vision using something like a nomex hood or trash bag and use the camera to navigate around a known and unknown area. Identify random objects using only the display screen or conduct a "scavenger hunt" type of drill locating objects (partially obscured) using only a TIC
- Use the TIC on normal every day calls to get more practice interpreting images and conditions as portrayed by the TIC.